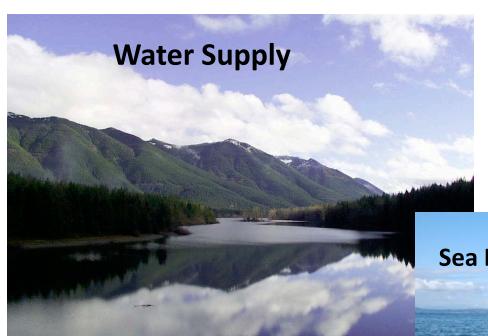
National Adaptation Forum April 2-4, 2013 Denver, CO

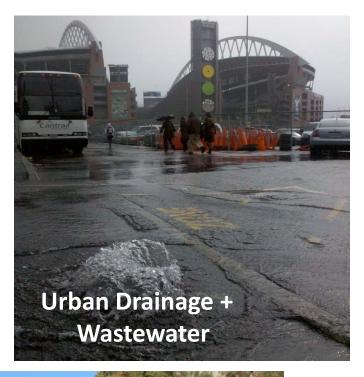
Informing Decision-Making + Seattle's highest water level on record



Paul Fleming, paul.fleming@seattle.gov
Manager, Climate and Sustainability Group
Seattle Public Utilities
Chair, Water Utility Climate Alliance

Climate program focus







Seattle Public Utilities

Climate program objectives

- Enhance our knowledge
- Establish collaborative partnerships
- Influence our operating environment
- Engage the science
- Assess impacts
- Inform decision-making
- Develop adaptation options
- Enhance system resiliency
- Reduce our contribution



Water Utility Climate Alliance



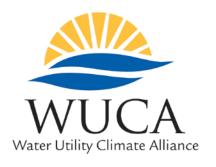
43 million drinking water customers



<u>Mission</u>: The Water Utility Climate Alliances provides leadership in assessing and adapting to the potential effects of climate change through collaborative action. We seek to enhance the **usefulness of climate science** for the adaptation community and improve water management **decision-making in the face of climate uncertainty.**

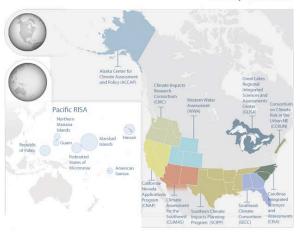
Seattle

Public
Utilities





Currently Funded RISAs







Seattle Public Utilities

Informing Decision-Making – Points of Intervention

- How to leverage external activities to inform internal decision-making
- "Climate smart mindset incorporates climate change analysis into strategic and operational decision-making"
- Would also include:
 - operating environment
 - planning
 - project/program design
 - capacity building



COMMITTED TO IMPROVING THE STAT OF THE WORLD

Global Risks 2013 Eighth Edition

An Initiative of the Risk Response Network

Insight Report



Strategic

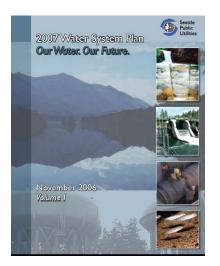
- Mayor's Executive Order on Green Stormwater Infrastructure
- Calls for six-fold increase in amount of stormwater managed with GSI
- "flexibility and resilience...to prepare for uncertainties of climate change"

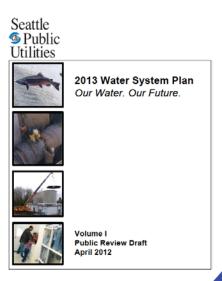




Planning

- State-mandated water system plan
- Venue for articulating analysis of climate impacts on our supply
- Expectation that climate change is now a feature of the plan





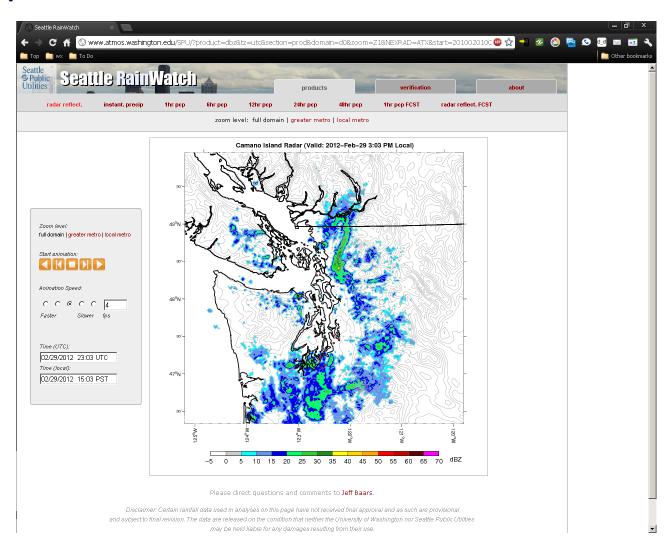


Project/program design

- Stage Gates asset management approach to rationalize capital investments with O&M
- Series of explicit steps all projects of a certain size have to take
- Moving towards including a climate module

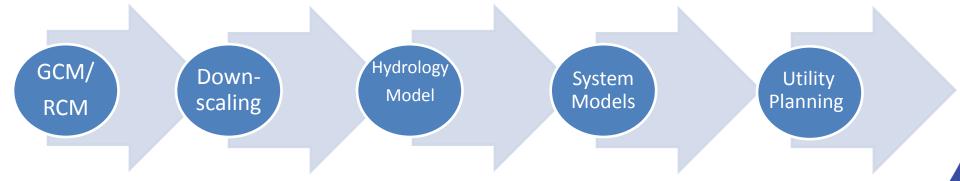


Operational





Building internal capacity







12/17/12 King Tide Event

- Contributing factors
 - Low pressure 980mb
 - Strong winds 30mph sustained
- Countervailing factors
 - low levels of precip
 - o peak wind and low pressure off cycle with apex of tide
- Set record for highest water level
- 100 properties flooded



12/17/12 King Tide Event Outcomes

Attention grabber

 Seattle Times article about how climate change will redraw our shores

Teachable moment

- City agencies gained greater understanding of king tides, implications of slr
- Greater engagement from Human Services Dept

Role definition

 Sorting out response roles between SPU, Police, Fire, Office of Emergency Management





